1. Solve for l. V = lwh 2. Solve for x. 5x + 4y = 7z 3. Solve the proportion. 

4. Solve the proportion.  5. Solve the proportion. 

6. A car travels 200 miles on 12 gallons of gas. Which proportion could be used to find how many gallons the car needs to travel 500 miles?

A)  B)  C)  D) 

7. A recipe calls for 2 cups of chocolate chips to make 36 cookies. How many cups of chocolate chips should you use to make 48 cookies?

8. A recipe for Koolaid calls for 1 part sugar for every 2 parts water. Jim needs to make a large quantity for a party. Which mixture follows the ratio in the recipe?

A) 1 cup of sugar, 1 cup of water B) 2 cups of sugar, 1 cup of water

C) 3 cups of sugar, 9 cups of water D) 6 cups of sugar, 12 cups of water

9. Find 60% of 42. 10. 32 is 64% of what number? 11. What percent of 30 is 60?

12. ROTC is selling coupon books as a fundraiser. They get to keep 25% of all sales. How many dollars worth of books must they sell to earn a profit of $800?

13. On a test with 60 questions, Tim answered 12 questions incorrectly. What percent of the questions did he answer correctly?

14. The original price of a pair of shoes was $80. Samantha bought them on sale at a discount of 30% off. Including sales tax of 8.25%, how much did she pay?

15. The attendance at the last football game was 1500 people. This week 1800 people attended. Find the percent of increase in attendance.

16. Use the formula for simple interest I = prt. Find t if I = $72.10, r = 3.5%, and p = $515.

17. y varies directly as x. If y = 16 when x = 4, find x when y = 36.

18. The amount of weight gained is directly proportional to the number of extra calories eaten. If 2 pounds are gained for every 4200 extra calories, how many pounds will Scott gain if he consumes 10,500 additional calories?

19. y varies inversely as x. If y = 40 when x = 16, find y when x = 10.

20. The weight needed to balance a seesaw varies inversely as its distance from the fulcrum. Jim and Jackie are seated at opposite ends of a seesaw. Jim weighs 200 pounds and Jackie weighs 125 pounds. If Jim is seated 5 feet from the fulcrum, how far should Jackie sit from the fulcrum to balance the seesaw?

21. Two trains going in opposite directions leave Chicago at the same time. One train travels 130km/h and the other travels 110km/h. After how many hours will the planes be 480 km apart?

22. The Johnsons left on a road trip, traveling at a rate of 50 miles per hour. One-half hour later, their neighbors left for the same road trip. They drove at a rate of 70 miles per hour. What time would they catch up to the Johnsons?